PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2003UR029		Form PCT/ISA/220				
		ere applicable, item 5 below.				
International application No. PCT/US04/15753	International filing date (day/mon:h/year) 20 May 2004 (20.05.2004)	(Earliest) Priority Date (day/month/year) 11 August 2003 (11.08.2003)				
Applicant EXXONMOBIL UPSTREAM RESEARCH COMPANY						
This international search report consists of the last	prepared by this International Searching Aug transmitted to the International Bureau. of a total of sheets. by a copy of each prior art document cited					
 Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 						
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).						
b. With regard to any nucleotic	de and/or amino acid sequence disclosed in the	he international application, see Box No. I.				
2. Certain claims were found	unsearchable (See Box No. II)					
3. Unity of invention is lacking	g (See Box No. III)					
4. With regard to the title,						
the text is approved as submi	* **					
the text has been established	by this Authority to read as follows:					
		•				
i						
	,					
5. With regard to the abstract,						
the text is approved as submit						
the text has been established, a may, within one month from t	according to Rule 38.2(b), by this Authority a the date of mailing of this international search	is it appears in Box No. IV. The applicant report, submit comments to this Authority.				
6. With regard to the drawings,						
a. the figure of the drawings to be published with the abstract is Figure No. 1						
as suggested by the ap	•					
	thority, because the applicant failed to suggest	-				
as selected by this Authority, because this figure better characterizes the invention.						
b. none of the figures is to be published with the abstract.						

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/15753

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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

Method for controlling the phase spectrum seismic data to match assumptions inherent in subsequent processing steps. The source signature, after processing with the same initial processing steps (10) used on the data, is used to design a phase control filter (20) that shapes the seismic data (30) to have a minimum phase spectrum or whatever other phase spectrum the subsequent processing algorithms may assume. The processed data is then filtered with a second phase-control filter (60), also designed (50) using the parallel-processed signature, to shape the data to zero phase or whatever other phase may be desired for interpretation of the data.

Form PCT/ISA/210 (continuation of first sheet(3)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/15753

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01V 1/28							
US CL : 702/17							
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED							
	ocumentation searched (classification system followed	by classifica	ation symbols)				
U.S. : 702/17, 14; 367/73							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NONE							
C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where			Relevant to claim No.			
A	US 5,173,879 A (CUNG et al) 22 December 1992	(22.12.1992)), see see entire document.	1-5			
Α	US 5,173,880 A (DUREN et al) 22 December 1992 (22.12.1992), see entire document.		1-5				
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Further	documents are listed in the continuation of Box C.		See patent family annex.				
* S ₁	pecial categories of cited documents:	-T"	later document published after the inte date and not in conflict with the applica				
	defining the general state of the art which is not considered to be lar relevance		principle or theory underlying the inve				
"E" earlier ap	plication or patent published on or after the international filing date	"X"	document of particular relevance; the considered novel or cannot be consider when the document is taken alone				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as		"Y"	document of particular relevance; the	laimed invention cannot be			
specified)		-	considered to involve an inventive step combined with one or more other such	when the document is			
"O" document	referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the				
	published prior to the international filing date but later than the te claimed	"&" document member of the same patent family					
	Date of the actual completion of the international search Date of mailing of the international search report 14 MAR 2005		h report				
	2005 (14.02.2005)	Authorized					
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